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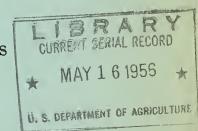


Checking Mountain Soil Moisture Under the Snow, an important factor in snowmelt runoff.

Federal-State Cooperative
Snow Surveys and Water Supply Forecasts
for

WYOMING

SOIL CONSERVATION SERVICE
UNITED STATES DEPARTMENT OF AGRICULTURE
AND
STATE ENGINEER OF WYOMING



Data included in this report were obtained by the agencies named above in cooperation with the U.S. Forest Service, Bureau of Reclamation, National Park Service, and other Federal, State and local organizations.

MAY 1, 1956

UNITED STATES DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE

TO RECIPIENTS OF COOPERATIVE SNOW SURVEY AND WATER SUPPLY FORECAST REPORTS:

Snow surveys in the West are conducted each year at more than 1200 snow courses. Basin and Province or State snow survey reports summarizing the results of the measurements and forecasts of seasonal runoff and water supply are issued by the Soil Conservation Service, U. S. Department of Agriculture and some of its cooperators; the Water Rights Branch of the British Columbia Department of Lands and Forests; and the California Division of Water Resources.

Copies of the various federal-state cooperative snow survey reports listed below may be secured by writing to:

Colorado, Rio Grande,.. Issued monthly February through May by SCS and

Head, Water Supply Forecasting Section Soil Conservation Service 209 S. W. 5th Avenue Portland 4, Oregon

BASIN REPORTS:

	and Platte-Arkansas River Basins	Colorado Experiment Station, Fort Collins, Colorado.*
	Columbia River Basin	Issued monthly January through May by Soil Conservation Service, Boise, Idaho.*
	Upper Missouri River Basin	Issued monthly February through May by SCS and Montana Agricultural Experiment Station, Bozeman, Montana.*
		Issued April 1 by Soil Conservation Service and Cooperators, Portland, Oregon.
SI	TATE REPORTS:	
	Arizona	Issued semi-monthly January 15 through April 1 by SCS and Salt River Valley Water Users Association, Phoenix, Arizona.*
	Nevada	Issued monthly February through April by SCS and Nevada State Engineer, Reno, Nevada.*
	Oregon	Issued monthly January through May by SCS, Portland, Oregon, and Oregon Agricultural Experiment Station.*
	Utah	Issued monthly January through May by SCS, Salt Lake City, Utah, and State Engineer of Utah and Utah Agricultural Experiment Station.*
	Washington	Issued monthly February through May by SCS, Spokane, Washington, and State Department of Conservation and Development.*

The British Columbia reports are issued February 1 through June 1 and may be secured from Comptroller, Water Rights Branch, Department of Lands and Forests, Parliament Buildings, Victoria, B.C.

Wyoming..... Issued monthly February through May by SCS, Casper,

Wyoming, and State Engineer of Wyoming.*

*Special reports are issued as needed.

The California reports are issued monthly February 1 through May 1 and may be secured from Division of Water Resources, California Department of Public Works, Sacramento, California.

The annual water supply forecasts of the Weather Bureau are available in monthly bulletins published from January through May. These bulletins entitled, "Water Supply Forecasts for the Western United States" may be obtained from River Forecast Center, Weather Bureau, 712 Federal Office Building, Kansas City 6, Missouri.

FEDERAL-STATE COOPERATIVE

SNOW SURVEYS AND WATER FORECASTS

FOR

WYOMING

Issued
May 1, 1956

Report Prepared by George W. Peak Snow Survey Supervisor

Soil Conservation Service and State of Wyoming

345 East 2nd Street
P. O. Box 699
Casper, Wyoming

Issued by

B. H. Hopkins State Conservationist Soil Conservation Service L. C. Bishop State Engineer of Wyoming Cheyenne, Wyoming ji ng 626 **3**5 milin 1943, 1938.

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PRELIMINARY WATER SUPPLY OUTLOOK FOR WYOMING

May 1, 1956

The water supply outlook for Wyoming remains generally the same as that of April 1. Low elevation snow courses have decreased considerably, however, snow surveys in the high areas indicate water contents the same as that of one month ago and on many courses the snow pack has increased.

Storage throughout Wyoming is still below normal -- 30 percent of the 4,500,000 acre-feet of usable capacity and 50 percent of the average for May 1.

SNAKE RIVER BASIN

The estimated flow for the April-September period is up 4 percent from the April 1 forecast. A heavy discharge of 1,190,000 acre-feet of water is expected for Jackson Lake, This is 139 percent of normal and 97 percent of the 1943 runoff.

Reservoir contents are now at 258,500 acre-feet, and will probably be down to 200,000 by June Lp providing storage space of around 600,000 to 650,000 acre-feet for the melting snow. Below Jackson Lake, the full natural stream flow for the season will be 160 percent of the 1938 to 1952 average for Pacific Creek, 143 percent for Buffalo Fork, 153 percent for the Gros Ventre and 145 percent of normal for the Hoback. The seasonal discharge of the Snake River above Palisades is computed at 4,200,000 acre-feet of water, which is 142 percent of normal and 93 percent of the big 1943 runoff.

The Salt River is expected to run 407,000 or 113 percent of normal, which gives a total flow of 4,600,000 acre-feet into Idaho.

GREEN RIVER BASIN

Seasonal stream flow of the Green at Warren Bridge will be 127 percent of normal, 106 percent of normal for the New Fork and an abnormally high seasonal flow of 176 percent of normal for North Piney and its adjacent streams.

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The Green at Fontenelle is estimated at 141 percent, and 127 percent at Linwood.

THE NORTH PLATTE BASIN

The snow pack on the North Platte watershed has dropped considerably during the month. Soil moisture is above normal in this area, but the forecast has been reduced to 10 percent above normal for the North Platte at Saratoga. Encampment will come in with a seasonal flow of 115 percent, Ledicine Bow River 110 percent, and an estimate of 115 percent of average for the Sweetwater at Alcova.

The Laramie River is expected to run 120 percent at Jelm and 110 percent at Lookout.

THE WIND RIVER AND BIG HORN BASINS

Runoff estimates from melting snow have gone up slightly at Dubois and the Vind River watershed above Riverton, however snow pack accumulation dropped in the southern end of the Wind River range. The forecast of the Wind River at Dubois is for 137 percent of normal, and 119 percent at Riverton. The Popo Agie will come in with an April-September discharge of 107 percent backed up with seasonal flows of 109 percent for the North Fork of the Popo Agie and the Little Popo Agie near Lander.

The total discharge in Boysen will be 117 percent of the 1938-1952 norm and the Big Horn River at Kane is forecasted at 120 percent.

The Shoshone River watershed looks very good with 1,000,000 acrefeet on the watershed which will be 128 percent of normal at Buffalo Bill Reservoir.

The Shell Creek watershed on the west flank of the Big Horns is standing at 110 percent of average.

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THE BIG HORN MOUNTAINS

Last fall the Soil Conservation Service located an extensive snow course network throughout the Big Horn watershed to supplement the data that was being obtained from the few existing, but widely scattered courses. Three of these old courses have adequate length of records for forecasting the seasonal runoff, but are comparatively low elevation courses, and therefore the data is not now as reliable as it will be with the addition of high elevation snow data. However, a considerable amount of study has been done in order to, as accurately as possible, determine the runoff for this season.

The Tongue River watershed is bracketed by Sour Dough snow course on the southeast and Ranger Creek snow course on the southwest. A careful analysis of these snow pack data and Tongue River runoff records produces a correlation that justifies the following statement.

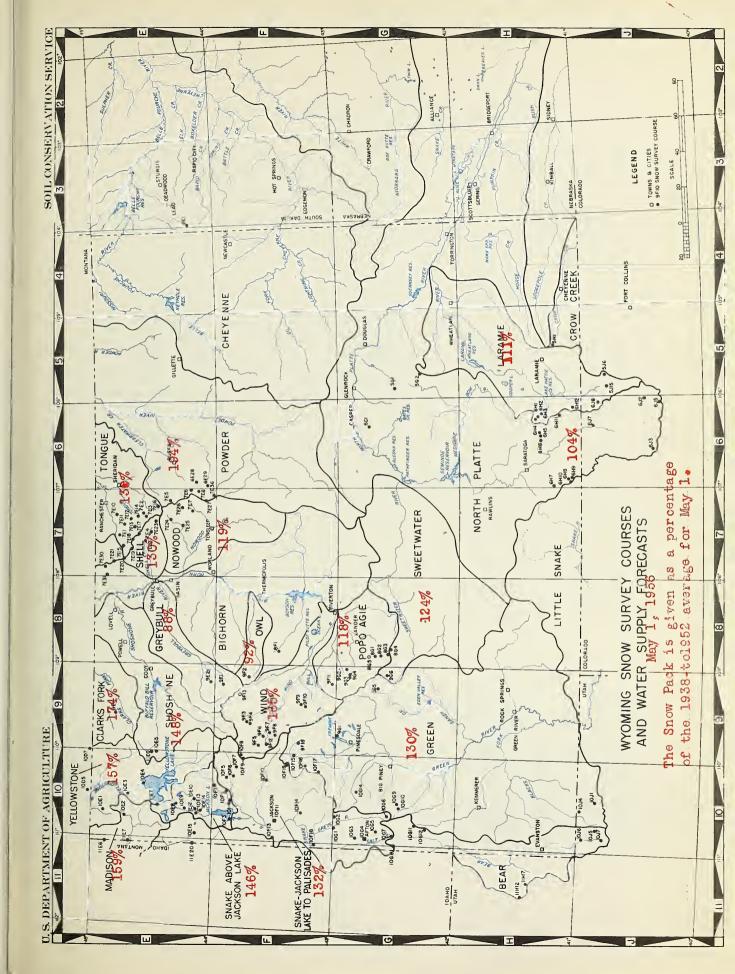
The April-September runoff at Acme, Wyoming is expected to be 325,000 acre-feet of water, or the equivelent of 136 percent of the 1938-1952 average. Comparatively, this is 10-15 percent greater than the seasonal discharge for the years 1943, 1945, 1946 and 1947, but only 70-80 percent of the heavy discharge of 1944.

At Decker, Montana the runoff for the season is estimated at 140 percent of normal, or close to 330,000 acre-feet of water. A TO THE SAME DESCRIPTION OF THE SAME OF T

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INDEX TO WICKING SHOW COOKSES

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and Course Nam	10	Number	LISSOU		Twp.	Long.	Regan	Datea	<u>8</u> y	and Course Name	Number	Elev.	Let. RI RIVE	Twp. DRA1NAGE	Long.	8egan	Dates	ву
MADISON RIVER										CROW CREEK								
Norria Pasin 21 Mile •m		10E2 11E6	7500 7150	44°44'	115	110°42'	1936 1934	3,4		Pole Mountain #2	51:1	8700	35	15N	72K	1936	2,3,4,5	1,4
West Yellowsto	one •m	11E7	5700	34	138	5E	1934	1,2,3,4,5	5	NORTH PLATTE	5H11	9400	18	14N	78%	1949	2,3,4,5	1
Canyon Cooke City *m		10E3	7750 7400	44°44'	9 S	110°30'	1938 1937	1,2,3,4,5	1 2	Bottle Greek Boxelder Casper Mountain	6H8 5G1 6G1	9000 8700	24 31 15	14N 30N 32N	85W 75W 79W	1935 1950 1954	2,3,4,5 2,3,4,5 1,2,3,4,5	1,4
Crovice Hounts East Entrence	in •m	10D5 10E5	6400 7000	22 17	9\$ 52N	9E 109W	1935	1,2,3,4,5	4 2 1	Columbine *c Fox Perk	6J3 6E:12	9300 9200	21 21	5N 13H	8 ZN 78W	1936 1936	2,3,4,5	1
Lake Camp Lupine Creek Thumb Divide		10E4 10E1 10E7	7850 7300 7900	44°54° 44°52°		110°24' 110°37' 110°35'	1937 1938 1945	1,2,3,4,5 1,2,3,4,5 2,3,4	2 5	LaBonte North Sarrett Creek#2 North French Creek#1	5G2 6H5 6H4	9400 10200	11 30 27	27N 16N 16N	74W 80W 80W	1949 1936 1938	2,3,4,5 2,3,4,5 2,3,4,5	1 1,4 1,4
Sylvan Pass CLARX'S FORK		10E5	7100	12	52N	1100	1935	1,2,3,4,5	2	North Frence Greek#2 Northgate *c	5H14 6J7	10200 8500	27 7	15N 11N	80₩ 79₩	1956 1950	2,3,4,5	1,4
Lodgepole		9E1	8200	32	56N	106W	1940	2,3,4,5	1,4	Old Settlo Park View *c Ryan Park #2	6H10 6J2 6H5	9800 9200 8400	29 24 34	14N 5N 16N	85W 78W 8 LW	1936 1936 1935	2,3,4,5 2,3,4,5 2,3,4,5	1,4
WIND RIVER										Spring Creak Webber Spring Willow Grack Page *c	65.7 6H.9 6J.5	9000 9000 9500	32 27 1	15N 14N 4N	85W 85W 76W	1949 1936 1938	2,3,4,5 2,3,4,5 2,3,4,5	1,4
Big Werm 8rooks Lake #3 Burroughs Gree		9F12 10F8 9F4	8800 9200 8800	36 23 15	42N 44N 43N	109W 110W 107W	1955 1939 1948	2,3,4,5 2,3,4,5 2,3,4,5	1 1	CHEYENNE RIVER	-							
Dinwoodie Dry Greek DuNoir		9F10 9F9 9F6	9500 8750	9 34 27	38 N 4 N 4 2 N	105W 105H 106W	1948 1948 1940	2,3,4,5	1	Upper Spearfish •a	3E1	5500	21	3 N	1E	1944	2,3,4	4
Best Fork Seyser Greek		9F13 9F7	9200 8500	23	44H 41N	104\Y 108W	1955 1948	2,3,4,5 2,3,4,5 2,3,4,5	1	GREEN RIVER		COLORA	OO RIVE	R DRAINAGE	:			
Little Yarm Sheriden R.S. Sheridan R.S.	⊭1 •f	9F8 9F5 9F14	9500 7500 7500	24 3 3	41N 42N 42N	108W 109W 109W	1948 1939 1955	2,3,4,5 2,3,4,5 2,3,4,5	1 1	Sig Park	10611	8 7 00 8 7 50	7 .	27N 34N	117W 115W	1951 1948	2,3,4,5	1
T-Cross Ranch Togwotos Poas	-	9F3 10F9	9600	1 29	43H 44N	1074	1940 1936	2,3,4,5	1 5	8lind 8ull Dutch Joe R.S. East Rim Divide	10G2 9G5 10F17	8700 7950	6 32 32	37N 37N	104W 111W	1935 1935	2,3,4,5	1 5 1
POPO AGIE RIVE	<u>R</u>									Green River Lakea Gros Ventre Eawinta R.S. *u	9F 16 10F 19 10J 4	8100 8750 9500	30 36 33	39 40N 3N	108W 114W 13E	1956 1948 1930	2,3,4,5 2,3,4,5	1
Blue Ridge Bruce's Camp Hobba Park		802 805 903	9500 5500 10000	23 24 22	31N 32N 2S	101W 101W 3W	1939 1965 1948	2,3,4,5 2,3,4 2,3,4,5	1 1	Hole-in-the-Rook *u Kelly R.S.	10/11	9150 8200	13 13 23	2N 26N 38E	15E 118W 110W	1931 1951 1935	4 2,3,4,5 2,3,4,5	1
Losquito Park Sewmill Slade	R.S.	9G4 8G1	9 500 8 5 00	23	25 31N	3W 101W	1940 1939	2,3,4,5	1	Kendall R.S. Loomis Park Mulligan Park	10F15 10F16 9G1	7900 8500 8900	14 17	37N 35N	111W 106W	1935 1936	2,3,4,5	1
South Page St.Lawrence R. Trout Creek	5.	8G3 9F11 9G2	9000 9000 8400	13 25 5	30N 11/ 2S	101% 4% 2%	1939 1940 1948	2,3,4,5 2,3,4,5 2,3,4,5	1 1	Old Sattle Pirey-LaSerge Poison Meadows	5H10 10G10 10G6	9800 8820 8500	29 19 29	14N 29K 30N	85W 114W 116W	1936 1937 1948	2,3,4,5 2,3,4,5 2,3,4,6	1,4
OWL CREEK										Snyder Sesin R.S.#1 Snyder Basin R.S.#2	10G9 10G13	8040 8040	15 15	29K 29K	114W 114W	1937 1956	2,3,4,5	1
Seavers Mill Owl Creek		9F2 8F1	8900 8700	6 36	43N 43N	102W 101W	1948 1948	2,3,4,5	1	5 oda Leke	10614	8300	14 HA RIVE	33N R ORAINAGE	115W	1955	2,3,4,5	•
GREYSULL RIVER	3									SKAKE RIVER BASIN (AN	ova Jack	aon Lake)					
Timber Creek : Timber Creek : Wood River #1		9E2 9E3 9F1	8800 8800 8000	25 25 28	47N 47N 46N	103W 103W	1948 19 6 5 1939	2,3,4,5	1 1 2	Arizona Aster Creek	10F1 10E8	5850 7700	3	45N	113W 110°37*	1919	2,3,4	5
Wood River #2		9F15	8000	28	46N	103W	1956	2,3,4,5	î	Baae Camp Coulter Creek Glade Creek	10F2 10E10 10E13	7600 7200	440091 440081	46N	113% 110o33* 110o44*	1947 1919 1919	2,3,4 2,3,4 2,3,4	5 2 6
SHOSHONE RIVER	<u>R</u>	1 9 E6	7000	17	82N	109W	1948	1,2,3,4,5	2	Greasy Lake Huckleberry Divide Lewia Lake Divide	10E15 10E14 10E9	7265 7300 7900	6 32 44°13,	48N 48N	117W 115W 110°40'	1940 1919 1919	2,3,4,5 2,3,4 2,3,4,5	5 5 5
Sylvan Pasa		10E5	7100	12	52N	110%	1936	1,2,3.4,5	2	Moren Moren Say	10F4 10F3	6800 6800	8,17 14 44°08'	45N 45N	114W 116W	1919 1919 1919	2,3,4	5 5 5
NOWCOOD CREEK Cold Springs C	отр	7E25	8700	1	50N	1788	1956	2,3,4,5	1	Snake River Station Thumb Divide	10E12 10E7	6780 7900	440221		110°40° 110°35°	1951	2,3,4	5
Medicine Lodge Munkers Pass ' North Powder a	•d	7E24 7E8 7E36	9500 9700 8300	7 11 20	51N 48N 47N	87W 85W 85W	1956 1950 1956	2,3,4,5 2,3,4,6 2,3,4,5	1 1 1	JACKSON LAKE TO PALIS	1004	6200	30	32N	116W	1936	2,3,4,5	4
Onion Gulch Tonsleep Lake		7527 7526 757	8100 9075 8300	31 33 30	48N 50N 49N	85W 86W 86W	1956 1956 1935	2,3,4,5	1 1 1	8laokrook 8lind 8ull	10F7 10G2 10F14	8600 8750 6250	6	44N 34N 38N	111W 115W 115W	1936 1948 1936	2,3,4	5 1
Tensleep R.S. Tyrell R.S.		7E35	8300	30	49N	8611	1956	2,3,4,5	i	Sryan Flat CCC Camp Cottonwood Lake	10G7 10G5	7500 7500	9 25	29N 31N	118W 118W	1936 1936	1,2,3,4,5 2,3,4,5 2,3,4,5	1,4
SHELL CREEK 8ald Mountain		7E21	9600	33	5 6 N	91W	1956	2,3,4,5	1	Deadman Ranch East Rim Divide Four Mile Meadows	1061 10617 1066	6534 7950 7770	28 32 35	35N 37N 45N	116W 111W 11ZW	1936 1936 1936	1,2,3,4,5 1,2,3,4,5 2,3,4,5	5 1
Seaver-Tongue Sone-Spring Di Granite Creek	lvide	7E20 7E18 7E22	9200 9200 7800	12 32 15	55N 55N 53N	91W 89W 89W	1956 1956 1956	2,3,4,5 2,3,4,5 2,3,4,5	1 1	Greya Boundary Gros Ventre Grover Park Divide	10F18 10F19 10G3	5800 8750 7500	33 36 27	37N 40N 33N	118W 111W 116W	1936 1948 1936	1,2,3,4,5 2,3,4,5 1,2,3,4,5	1
Granite Page Horse-Trail Di	-	7E17 7E19	8950 9200	19 29	54N 55N	90W	1956 1956	2,3,4,5	1	Loomia Park Poison Mesdowa	10F16 10G6	8500 8500	14 29	37N 30N	111W 116W	1936 1949	2,3,4,5	1
Aanger Creek Shell Creek		7E4 7E23	9 600	32 12	53N 52N	88W 88W	1935 1956	2,3,4,5	1	Teton Pesa #2 Togwotee Pase furpin Meadows	10F13 10F9 10F5	9600 6930	24 29 14	41N 44N 45N	116W 110W 112W	1938 1936 1936	1,2,3,4,5 2,3,4,5 2,3,4	5 1,4 5 5
PORCUPINE CREE	_	7E31	7500	19	5611	9 <i>2</i> W	1956	2,3,4,5	1	Yellowjacket Selt River Summit Snow King Mountain#1	10F10 10G8 10F11	7675 7900 7800	33 32 4	42N 29B 40N	112W 118W 117W	1936 1948 1949	2,3,4,5 2,3,4,5 S _{min} No.	1,4 1
Medicine Wheel		7E30	9000	24	56N	92W	1956	2,3,4,5	î	Snow King Mountain#2		7600	i	40N	117/1	1954	Semi ko.	î
TONGUE RIVER Seever Tongue	Divide		9200	12	55%	91W	1956	2,3,4,5	1	SEAR RIVER Sig Park	10011	8700	7	27N	11 <i>7</i> %	1951	2,3,4,5	1
Sig Goose #1 Big Goose #2 Bone-Spring D		7E2 7E32 7E18	7700 7700 9200	4 4 32	53N 53N 55N	86W 86W 89W	1935 1965 1956	2,3,4,5 2,3,4,5 2,3,4,5	1 1 1	GCC Camp Girl Hollow *u Goodman Ranch *u	1067 11H17 10J6	7500 8400 7900	9 5 19	29N 7N 3N	116W 5E 10E	1936 1951 1937	2,3,4,5 3,4,5	1,4
Surgees R.S. ;	∳1	7E1 7E33	7900 7900	36 36	56N 56H	89W 89W	1950 1955	2,3,4,5	1	Hayden Fork *u Heed of Bear River *u	10J7 10J5	9300 8600	1 15	15 2N	9E 10E	1951 1935	4,5	
Dome Lake #1 Dome Lake #2 Gloom Creek		7E3 7E34 7E14	8800 8800 9300	11 11 32	53N 53N 55N	୫ ୮ ୩ ୫ ୮ N ୫ ୮ W	1950 1950 1966	2,3,4,5 2,3,4,5 2,3,4,5	1 1	Kelly R.S. Monte Cristo, R.S. •u Poison Meedows	10G12 11H12 10G5	8200 8960 8500	13 3 29	26N 8N 30N	118W 4E 116W	1951 1930 1948	2,3,4,5 3,4,5 2,3,4,5	1
Granite Pass Horse-I. to Do lake Geneva	ivide	7517 7519 7516	8950 9200 9000	19 29 7	54N 55N 52N	90\Y 90\Y	1956 1956 -	2,3,4,5 2,3,4,5 2,3,4,5	, i . ,	 Salt River Summit	1008	7900	32	29%	118#	1948	2,3,4,5	1,4
North Tongue Sibley Lake Sucker Creek		7E15 7E11 7E12	8800 8000	17 10	55N 55N	89W 86W 87W	1956 1956	2,3,4,5	1									
Steamboat Poi: Wood Rock G.S.	nt •	7E10 7E13	9000 7500 8500	19 32 3	55N 56N 54N	87W 88W	1956 1956 1956	2,3,4,5 2,3,4,5 2,3,4,5	1 1									
POWDER RIVER																		
Crazy Woman Muddy Creek G. Munkers Pass		7E29 7E28 7E8	8200 7800 9700	8 2 11	47N 48N 48N	84W 84W 85W	1956 1958 1950	2,3,4,5	1									
North Powder of Onion Gulch		7E36 7E27	8300 8100	20 31	47N 48N	85₩ 85W	1956 1956	2,3,4,5 2,3,4,5 2,3,4,5	1 1									
Soldier Park Sour Dough		7E5 7E6	8700 8500	36 17	51N 49N	8571 84 7 1	1950 1936	2,3,4,5	1									
SWEETHATER Grannier Mead	own #3	8G4	9000	10	201	1000	1937	0.7.	,									
Grannier Raed Larsen Creek		8G 6 9G 6	9000 9000	19 19 12	30N 30N	100W 100W 103W	1956 1949	2,3,4,6 2,3,4,5 2,3,4,5	1 1	e, Numerela 1,2,3,4 b. Numerela refer t	o Agenoy	that se	ourea th	l, Februs	ry 1, Mer rvey, as	oh 1, Apr	ril 1, and	May 1.
South Pass LARABIE RIVER		8G3	9000	13	30N	101W	1939	2,3,4,5	1	1. Soil Cons 2. U. S. Net 3. U. S. Ind	ervetion	Service k Servi						
Srooklyn Lake	#1	6H1	10200	11	16N	79N	1936	2,3,4,5	1	4. U.S. For 5. U.S. Bur	eat Servi	loe. colamat:	ion.					
Brooklyn Lake Deadman Hill Fox Park	*c	6H13 SJ6 6H12	10200 10200 9200	11 26 21	16N 10N 13N	7977 75W 76W	1956 1937 1936	2,3,4,5 3,4,5 2,3,4,5	4	6. U. S. Geo o. Colorado anow co d. Formerly Muddy P e. North Powder #1	urses.							
Hairpin Turn : Libby Lodge # LoIntyre *c	2	6H2 6H3 6J15	9500 8700 9100	24 29 3\$	16N 16N 10N	7977 78W 76W	1936 1936 1949	2,3,4,5 2,3,4,5 2,3,4,5	1,4	e. North Powder #1 f, Sheridan Creek p m. Montana snow cou	artially	deatroy	red.					
Pole Mountain Rosoh *c	∳ 2	5H1 6J8	8700 9800	36 5	15 N 10 N	72N 77W	1936 1940	2,3,4,5	1,4	s. South Dakota sno u. Utah anow opuras	w ocurse	١.			****		58-	13488

WYOMING STREAM-FLOW FORECASTS MAY 1956

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BASIN AND TRIBUTARY		Stream-Flow	in Thou	sands of	Acre Feet
	FORECAST RUNOFF	% 15 - Yr•	Mangue	ed Runoff:	
	KONOPP	AVG.	1954	1953	1938=52
		11.00	1001		
NA DIRON DELITO					
MADISON RIVER	236	119	219	207	198
West Yellowstone (at) YELLOWSTONE	200	119	413	201	190
Corwin Springs(at) Mont.	2434	130	2014	1646	1870
NORTH POPO AGIE	2704	100	2011	10.10	1010
Milford (near)	90	109		66	83**
LITTLE POPO AGIE					
Lander (near)	58	109		36	53**
POPO AGIE RIVER					
Riverton (near)	370	107		218	345**
WIND RIVER					
Dubois (at)	140	137	105	92	102
Riverton (at)	610	119		285	511
Boysen (below) (1)	1100	117	630	618	940
Kane (at) (1)	1610	120	696	805	1344
St.Exavier (near) Mont.(1)	2440	118	1226	1096	2065
SHOSHONE RIVER					
Buffalo Bill Dam(below)(2)	1000	128		582	7 80
SHELL CREEK					
Shell (near)	81	110		67	74**
CLARKS FORK					
Chance (at)	708	122	600	519	580
LARAMIE RIVER		• • •	4.0	0.4	105
Jelm (at)	125	120	46	64	105
Lookout (at)	90	110	8	28	82
ENCAMPMENT RIVER	7.05	225			1.00
Encampment (near)	185	115			160
NORTH PLATTE RIVER	5 35	330	074	400	657
Saratoga (at)	725	110	234	428	637
MEDIC INE BOW RIVER	100	710		60	111
Hanna (near)	122	110		80	T + T
SWEETWATER RIVER	84	115		42	73
Alcova (at) GREEN RIVER	0#	110		76	70
Warren Bridge (at)	422	127	354	307	333
warren branke (so)	TLL	± 60 f	001	001	000

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WYOMING STREAM-FLOW FORECASTS MAY 1956

		Anril	- Septembe	er 30	
	Seasonal	Stream-Flow			Acre Feet
BASIN AND TRIBUTARY	FORECAST	%			15-Yr.
	RUNOFF	15-Yr.	Measure	ed Runoff	**Avg
		AVG •	1954	1953	1938-52
NORTH PINEY CREEK					
Mason (near)	65	176	35	33	37
NEW FORK CREEK					
Boulder (near)	265	106	259	227	248
GREEN RIVER					
Fontenelle (at)	1310	141		768	931
Linwood (at) Utah	1650	127	901	957	1300
SNAKE RIVER					
Moran (at)	1190	139	1010	806	858
PACIFIC CREEK					
Moran (near)	265	160	230	164	166
BUFFALO FORK					
Moran (near)	509	143	418	336	356
GROS VENTRE					
Kelly (at)	400	153	293	218	261
HOBACK	. •	•			
Jackson (near)	559	145	448	380	386
SNAKE RIVER					
State Line (at)	4200	142	3250	2702	2958
SALT RIVER				_	
State Line (at)	407	1 13	287	282	360
BEAR RIVER					
Evanston (near)	120	85	55	113	142
Randolph (near)	88	7 6	15	67	116*
Harer (at) Idaho	245	8 7	100	184	281
SMITHS FORK					
Border (near)	123	108	89	99	114*
TONGUE RIVER	205	3.77.0		000	070
Acme (at)	325	136	222	200	239
Decker (at) Mont.	330	140	111	190	236

⁽¹⁾ Observed flow corrected for storage in Boysen, Bull Lake and Pilot Butte Reservoirs.

⁽²⁾ Observed flow corrected for storage in Buffalo Bill Reservoir.

^{*} Less than 15.

^{**} Estimated for 1938-52 average.



COOPERATIVE SNOW SURVEYS Summary of Snow Measurements

May 1, 1956

WATERSHEDS	NO. OF COURSES AVERAGED	YEARS USED 1938-	1956	SNOW WATER AS PERCENT	EXPRESSED PAGE OF 1938-1952
		1952	1955	1954	Average
Madison River - Yellowstone Pa	rk 2	15	100	136	159
Upper Yellowstone-Yellowstone	Park 3	9-11	132	137	15 7
Lower Yellowstone-Clark's Fork	1	15	174	136	174
Lower Yellowstone-Wind River	3	12-15	160	130	165
Lower Yellowstone-Popo Agie Ri	ver 5	8-15	137	134	118
Lower Yellowstone-Owl Creek	1	7	117	89	92
Lower Yellowstone-Greybull Riv	er l	13	152	109	88
Lower Yellowstone-Shoshone Riv	er 1	15	144		148
Lower Yellowstone-Nowood Creek	2	6-15	94	137	119
Lower Yellowstone-Shell Creek	1	15	99	139	130
Lower Yellowstone-Tongue River	2	6=15	115	72	130
Lower Yellowstone-Powder River	3	6-15	187	202	194
North Platte-Sweetwater River	2	13-15	131	109	124
North Platte-Laramie River	7	13-15	172	189	111
North Platte-Crow Creek	1	15	0	0	0
North Platte-Above Seminoe Res	ervoir 11	15	143	177	104
Upper Colorado-Green River	8	10-15	180	155	130
Snake River Above Jackson Lake	E	15	115	138	146
Jackson Lake to Palisades	4	8-15	116	104	132

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WYOMING SNOW SURVEYS - ABOUT MAY 1, 1956

					SNOW COV	ER MEASU	JREMENTS	.,	-
DRAINAGE BASIN				1956		Pas	t Rec	orá	
and	No.		Date	Snow		Water	Content(
SNOW COURSE	or		of		Content		1938		
	State	Elev.	Survey	(Ine)	(In.)	1955	1954	Avg.Rec	ord
MADISON RIVER - Y	ellows'	TONE PAR	RK						
Norris_Basin	10E2	7500	5/2	18	5.7	8.2	6.4	4	4
21Mile ^m	11E6	7150	4/29	41	17.7	15.0	14.4	11.2 2	
West Yellowstone ^m	11E7	6700	4/29	15	5 .7	8.4	2.8	3.5 2	2
UPPER YELLOWSTONE	- YEL	Lowstone	PARK						
Canyon	10E3	7750	4/30	47	17.4	14.5	13.3	11.6**	9
Cooke Citym	10D7	7400	5/1	20	6.8	6.6	7.4	5.5**1	
East Entrance	1096	7000	4/29	9	2.2	1.3	NR		2
Lake Camp	1094	7850	4/30	41	15.2	8.8	8.1	8.0**10	0
Lupine Creek	10E1	7300	5/2	27	9.4	10.5	9.5	6	6
LOWER YELLOWS TONE	- CLAI	RK'S FOR	<u>k</u>						
Lodgepole	9E1	8200	5/1	51	16.0	9.2	11.8	9.2**	17
LOWER YELLOWSTONE	- WINI	RIVER							
Big Warm	9F12	8800	4/25	43	13.3	8.4		:	1
Brooks Lake	10F8	9200	4/25	92	37.1	27.9	32.3	25.6 20	0
Burroughs Creek	9F4	8800	4/27	64	23.5	9.4	16.7	16.2**	7
Dinwoodie	9F10	10000	4/28	64	21.8	11.9	16.9	15.0**	7
Dry Creek	9F9	9500	4/28	39	11.2	5.7	8.6	8.0**	7
DuNoir	9F6	8750	4/25	43	14.0	6.9	8.3	6.9**14	4
Geyser Creek	9F7	8500	4/26	34	11.4	7.1	6.5	5.1**	
Little Warm	9F8	9500	4/26	83	28.7	19.2	23.3	22.4**	
Sheridan R.S. 2	9F14	7500	4/25	31	9.7	2.5			1
T-Cross Ranch	9F3	8000	4/27	27	9.0	2.7	5.8	3.9**13	
Togwotee Pass	10F9	9600	4/30	107	47.4	30.6	37.0	33.5**	7
LOWER YELLOWSTONE	- POP	AGIE F	RIVER						
Blue Ridge	8G2	9500	5/2	39	15.6	11.0	12.3	12.7**	16
Burce's Camp	8G5	6500	5/2	0	0.0				
Hobbs Park		10000	4/30	69	27.3	19.0	22.6	26.1**	7
Mosquito Park R.S	9G4	9500	4/30	29	9.7	8.0	7.4		
Sawmill Glade	8 G l	8500	5/2	13	4.3	3.2	2.0	7.2**	16

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WYOLING SNOW SURVEYS - ABOUT MAY 1, 1956

					SNOW COV	ER MEAST		
DRAINAGE BASIN				1956		: Pas		cord
and	No.		Date	Snow	Water			(In.)Prev.
SNOW COURSE	or		of		Content			8-52Yrs.of
	State	Elev.	Survey	(In.)	(In.)	1955	1954	Avg.Record
LOWER YELLOWSTONE	- POPO	AGIE RI	VER (Co	n't.)				
South Pass	803	9500	5/2	4 4	19.9	14.0	16.8	14.8** 16
St.LawrenceR.S.	9F11	9000	4/29	33	9.4	6.9	5.4	7.8** 12
Trout Creek	9G2	8400	4/30	0	0.0	0.8	0.0	2.5** 7
LOWER YELLOWSTONE	- 0%L (CREEK						
Beavers Mill	9F2	8900			NR	5.1	8.7	6.3** 7
Owl Creek	8F1	8700	4/30	27	6.8	5.8	7.6	7.4**/7
LOWER YELLOWSTONE	- GREY	BULL RIV	ER					
Timber Creek, 1	9E2	8800	5/1	23	6.5	2.8	3.1	5
Timber Creek #2	9E3	8300	5/1	11	3.0	0.0	0.1	1
Wood River #1	SF 1	8000	5/2	13	3.5	2.3	3.2	4.0** 16
LOWER YELLOWSTONE	- SHOS	HONE RIV	ER					
East Entrance	10E6	7000	4/29	9	2.2	1.3	NR	2
Sylvan Pass	10E5	7100	4/29	34	13.0	9.0	NR	8.8** 15
LOWER YELLOWSTONE	- NOWO	OD CREEK						
Cold Springs Camp	7E25	8700	5/1	30	6.6			
MedicineLodgelake		9500	5/1	46	10.8			
Munkres Passd	7E8	9700	4/29	45	12.4	9.6	7.8	8.6** 6/
NorthPowder 2e	7E36	8300	4/28	32	9.1			
Onion Gulch	7E27	8100	4/29	29	7.3			
Tensleep Lake	7E26	9075	4/30	43	11.3			
Tensleep R.S.	7E7	8300	4/30	13	3.2	7.0	3.6	4.5 20
LOWER YELLOWSTONE	- SHEL	L CREEK						
Bald Mountain	7E21	9600	4/16	68	24.2			
Beaver-TongueDiv.	7E20	9200	4/17	66	23.6			
Bone-SpringDiv.	7 E 1 8	9200	4/19	59	20.8			
			•					

d. Formerly Muddy Pass
e. North Powder #1 destroyed / All past years of record

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WYOMING SNOW SURVEYS - ABOUT MAY 1, 1956

					SNOW COVE	ER MEAS	UREMENTS	
DRAINAGE BASIN				1956		Pas		cord
and	No.		Date	Snow	Water :	Water	Content	(In.)Prev.
SNOW COURSE	or		of	Depth	Content	0. Militar in the region.	193	8-52Yrs.of
	State	Elev.	Survey	(In.)	(In.)	1955	1954	Avg.Record
LOWER YELLOWSTONE	- SHEL	L CREEK	(Con't.	.)				
Granite Cr. Camp	7E33	7800	5/2	0	0.0			
Granite Pass	7E17	8950	4/19	60	21.2			
Horse-Trail Div.	7E19	9200	4/17	60	19.6			
Ranger Creek	7E4	8800	5/2	26	8.2	8.3	5.9	6.3** 19
Shell Creek	7E23	9600	5/2	61	17.9			200 10
LOWER YELLOWSTONE	- PORC	UPINE CF	REEK					
Five Springs Falls	7E31	7500	5/3	13	4.6			
Medicine Wheel	7E30	9000	4/17		15.5			
LOWER YELLOWSTONE	- TONG	UE RIVEF	2					
Beaver-Tongue Dive	7E20	9200	4/17	66	23.6			
Big Goose #1	7E2	7700	4/22	17	4.4	2.2	1.1	2.6 19
Big Goose #2	7E32	7700	4/22	34	9.9	7.8		1
Bone-Spring Div.	7 E18	9200	4/19	59	20.8			
Burgess R.S. #1	7D1	7900	4/18	31	8.2	9.2	20.9	14.2 ** 6 /
Burgess R.S. #2	7E33	7900	4/18	31	8.7	9.1		1
Dome Lake #1	7E3	8800	4/21	32	9.6	7.9	8.9	8.6** 7 /
Dome Lake #2	7E34	8800	4/21	44	14.2			
Gloom Creek	7214	9300	4/20	54	17.3			
Granite Pass	7E17	8950	4/19	60	21.2			
Horse-Trail Div.	7E19	9200	4/17	60	19.6			
Lake Geneva	7E16	9000	4/23	38	10.0			
North Tongue	7E15	0088	4/18	46	13.9			
Sibley Lake	7E11	8000	4/16	40	10.4			
Sucker Creek	7E12	9000	4/20	44	13.8			
Steamboat Point	7E10	7500	4/20	32	9.8			
Wood Rock G.S.	7E13	8500	4/19	43	13.7			
LOWER YELLOWSTONE	- POWD	ER RIVER	2					
Muddy Cr. G.S.	7E28	7800	4/29	15	5.1			
Munkres Passd	7 E8	9700	4/29	45	12.4	9.6	7.8	8.6**6/

d. Formerly buddy Pass

_/ All past years of record

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WYOMING SNOW SURVEYS - ABOUT MAY 1, 1956

	********				SNOW COVE	R LEAS	UREMENTS	
DRAINAGE BASIN				1956		Pas		cord
and	No.		Date	Snow		Water		(In.) Preve
SNOW COURSE	or		$\circ f$		Content			8-52 Yrs. of
	State	Elev.	Survey	(In.)	(In.)	1955	1954	Avg.Record
LOWER YELLOWSTONE	- POW	DER RIVE	R (Con'	t.)				
North Powder, 2°	7 E36	8300	4/28	32	9.1			
Onion Gulch	7E27	8100	4/29	29	7.3			
Soldier Park	7E5	8700	4/25	36	11.0	4.5	3.6	4.2**6/
Sour Dough	7E6	8500	4/26	38	10.8	4.2	5.5	4.8 19
NORTH PLATTE - SW			-/					
	************		,					
Grannier Meadows,		9000	5/2	3 9	15.7	13.1	16.0	13.9 19
Larsen Creek	9G6	9000	5/3	27	10.6	1.7	0.0	6
South Pass	8G3	9000	5/2	44	19.9	14.0	16.8	14.8**16
NORTH PLATTE - LA	RAMIE I	RIVER						
Brooklyn Lake	6H1	10200	4/29	63	27.8	17.5	18.0	23.6 20
Brooklyn Lake "2	6H13	10200	4/29	59	26.4	1.00	1000	
Deadman Hille	5J6	10200	4/30	65	24.2	14.6	11.2	17.6 17
Fox Park	6H12	9200	4,/29	14	3.9	0.0	0.0	7.5 20
Hairpin Turn /2	6H2	9500	4/29	36	13.1	6.8	6.6	11,4 20
Libby Lodge #2	6H3	8700	4/29	18	6.3	3.6	1.5	6.8 20
McIntyre	5J 15	9100	5/2	38	12.6	6.1	4.4	12.0** 7
Pole Mtn. # 2	5H1	8700	5/1	0	0.0	0.4	0.4	
Roach	6J8	9800	4/28	6 7	25.8	16.2	15.7	21.1**15
NORTH PLATTE - CR	OW CREE	EK .						
Pole Mtn. "2	5H1	8700	5/1	0	0.0	0.0	0.4	3.4** 13
NORTH PLATTE - AB	OVE SEI	INOE RE	SERVOIR					
Albany	6H11	9400	4/28	30	12.0	4.0	2.0	13.9** 7
Bottle Creek	6H8	8200	4/27	25	11.0	10.0	7.0	9.2 20
Boxelder	5G1	9000	4/30	ر _م ے 5	1.4	6.2	1.4	6
Cameron Pass	5J1	10300	4/27	88	38.9	16.9	17.5	24.3 20
Casper Mtn.	6G1	8700	5/1	3 8	9.8	15.2	TIOO	1
Columbine	6J3	9300	4/30	48	23.2	19.3	8.7	20.6 20
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e. North Powder # 1 destroyed

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WYOHING SNOW SURVEYS - ABOUT MAY 1, 1956

DRAINAGE BASIN and No. Date Snow Water : Water Content(In.) Prev.	Control Manager Control Control of Control Control Control	**************************************				SNOW COVE	R MEAS	UREMENTS		
Show Course State Elev. Survey (In.) (In.) 1955 1954 Avg. Record	DRAINAGE BASIN								cor	d
Show Course State Elev. Survey (In.) (In.) 1955 1954 Avg. Record	and	No.		Date	Snow	Water :	Water	Content	(In.)	Prev.
Fox Park 6H12 9200 4/29 14 3.9 0.0 0.0 7.5 20 LaBonte 5G2 8450 4/30 0 0.0 0.0 NR 0.0 4 North BarrettCr. 6H5 9400 4/26 47 19.3 16.9 14.9 21.7 20 North French Cr. 6H4 10200 4/26 74 33.0 26.3 26.5 33.4 18 Northgate 6J7 8500 4/30 9 2.1 0.0 0.0 6 01d Battle 6H10 9300 4/27 73 33.8 25.9 24.2 33.7 20 Park View 6J2 9200 4/30 24 6.2 1.5 0.8 7.9 20 Ryan Park 6H6 8400 4/28 12 4.2 7.8 3.2 7.9 20 Ryan Park 6H6 8400 4/28 12 4.2 7.8 3.2 7.9 20 Spring Creek 6H7 9000 4/27 31 13.2 12.8 8.2 18.0** 7 Webber Spring 6H9 9000 4/27 34 15.4 13.0 9.0 16.4 20 Willow Cr. Pass 6J5 9500 4/30 39 14.2 4.2 2.7 13.5 18 UPPER COLOR.DO - GREEN RIVER Big Park 10G11 8700 5/3 51 23.3 18.3 19.4 4 Dutch Joe R.S. 9G5 8700 4/26 15 4.9 1.9 0.9 4.2**19 East Rim Div. 10F17 7950 4/30 34 12.1 8.1 10.7 10.5**10 Green River Lake 9F16 8100 4/24 20 6.4 Gros Ventre Summit10F19 8750 4/25 44 17.0 Kelly R.S. 10G12 8200 5/3 39 18.0 Kendall R.S. 10F15 7900 4/24 30 11.8 3.4 2.2 6.1 20 Loomis Park 10F16 8500 4/23 45 20.2 12.8 17.3 10.3 20 Mulligan Park 9G1 8900 4/23 22 8.4 6.0 8.5 6.5 20 Piney-LaBarge 10G10 8820 4/30 39 18.6 6.6 7.9 14.0 20	SNOW COURSE	or		of		Content		193	5 -5 2	Yrs.of
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*Grassy Lake 10E15 7265 4/30 85 42.0 36.4 30.5 28.8**16	*Grassy Lake						36.4	30.5	28.8	3**16
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^{*} Not located directly on this drainage

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WYOMING SNOW SURVEYS - ABOUT MAY 1, 1956

					SNOW COV			S
DRAINAGE BASIN				1956				cord
and	No.		Date	Snew	Water			t(In.)Prev.
SNOW COURSE	or		of		Content			38-52Yrs.of
	State	Elev.	Survey	· (In.)	(In.)	1955	1954	AvgeRecord
IACKSON IAKE DO D	/ T T O A TA	10						
JACKSON LAKE TO P	WITTOWNE	10						
Afton R.S.	10G4	6200	4/30	0	0.0			
Bryan Flat	10F14	6250	4/30	0	0.0	3.0	0.0	3.0** 9
CCC Camp	10G7	7500	4/30		Trace	7.5	2.7	6
East Rim Div.	10717	7950	4/30	34	12.1	8.1	10.7	10.5**10
Greys Boundary	10F18	5800	4/30	0	0.0	4.0	HR	0.7**11
GrosVentreSummit	10F19	8750	4/25	44	17.0			
Grover Park Div.	10G3	7500	4/30		Trace	7.8	3.1	6
Loomis Park	10F16	8500	4/23	45	20.2	12.8	17.3	10.3 20
Poison Meadows	10G6	8500	4/30	89	40.0			
SaltRiver Summit	10G8	7900	4/30	16	6.9	9.9	8.1	3
Snow King Mtn	10F11	7600	5/1	42	15.1	7.9	10.4	5
Snow King Mtn 2	10F12	7600	5/1	25	8.6	6.4	3.1	2
Teton Pass #2	10F13	8500	4/30	117	53.9	35.2	40.4	41.2** 7
Togwotee Pass	10F9	9600	4/30	107	47.4	30.6	37.0	33.5** 7
Yellowjacket	10F10	7675						
BEAR RIVER								
Big Park	10G11	8700	5/3	51	23.3	18.3	19.4	4
CCC Camp	10G7	7500	4/30		Trace	7.5	2.7	6
Kelly R.S.	10G12	8200	5/3	39	18.0	. • •		
Poison Meadows	10G6	8500	4/30	89	40.0			
Salt River Summit		7900	4/30	16	6.9	9.9	8.1	3
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^{**} Average is for less than 15 years of record in the 1938-52 period.

c. Colorado snow courses

m. Montana snow courses

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STATUS OF WYOMING AND SOUTH DAKOTA RESERVOIR STORAGE - MAY 1, 1956

BASIN		USABLE	USABLE	STORAGE	- 1000	ACRE FEET
and/or	RESERVOIR	CAPACITY				lō-Yr Avg.
STREAM		1000s AF	1956	1955	1954	1938-52
Snake River	Jackson	847.0	258,5	502.6	450.0	502.7
North Platte	Seminoe	981.8	228.7	333.9	235.7	387.6*
North Platte	Pathfinder	1011.0	544.4	508.2	913.0	508.4*
North Platte	Alcova**	190.5	21.6	274.8	266.8	132.9
North Platte	Guernsey	39.8	10.1	25.8	38.8	35 . 9
North Platte	Southerland	185.0	52.8			
North Platte	Kingsley	1995.0	923.4			
North Platte	Lake Alice &					
	Linatare	68.0	37.7			
Kansas Basin	Box Butte	31.6			20.5	25.2*
Kansas Basin	Bonny	39.9	40.5	38.7	39.2	17.1*
Kansas Basin	Swanson Lake	116.1	67.2	40.8	25.4	
Kansas Basin	Enders	36.0	43.4	34.3	34.4	19.9*
Kansas Basin	Harry Strunk	33.9	32.8	32.5	30.2	27.4*
Kansas Basin	Harlan County	252.9	196.8	97.9	66.7	
Kansas Basin	Cedar Bluff	176.8	125.4	87.2	100.3	72.0*
Laramie River	Wheatland	95.0	No Repor	t		
Belle Fourche	Belle Fourche	185.2	119.0	101.7	136.4	132.4*
Belle Fourche	Keyhole	190.3	15.9	32.1	8.4	0.5*
	,					
Shoshone River	Buffalo Bill	439.8	130.4	119.3	156.4	266.6
Wind River	Boysen	560.0	0.0	216.1	360.3	233.4*
Wind River	Pilot Butte	31.6	27.3	29.4	25.3	20.9*
Wind River	Bull Lake	152.0	51.9	61.1	62.3	48.6*
Cheyenne River	Angostura	92.0	74.4	89.8	34.2	33.6*
Cheyenne River		15.1	11.3	12.1	15.1	14.2*
			•			
Grand River	Shadehill	84.0	82,7	79.7	83.3	118.8*
Green River	Big Sandy	38.3	12.2	12.8	11.1	

^{*} Average is for less than 15 years of record in the 1938-52 period.

^{**} Alcova, downstream from Seminoe and Pathfinder and containing 160,170 acre feet of active storage that is unavailable to the Kendrick Project.

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The data included in this report were obtained by the Soil Conservation Service in cooperation with the agencies named below:

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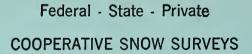
- U. S. Department of Agriculture Forest Service
- U. S. Department of Commerce Weather Bureau
- U. S. Department of the Interior
 Bureau of Reclamation
 National Park Service
 Geological Survey

STATE

State Engineer of Wyoming

PRIVATE

Wheatland Irrigation District



Furnishes the basic data necessary for forecasting water supply for irrigation, domestic and municipal water supply, hydro-electric power generation, navigation, mining and industry

"WATER IS THE WEST'S GREATEST RESOURCE"